

**ACOUSTIC ABSORPTION RADIATION SENSING IN SiC**ABSTRACT OF THE DISCLOSURE

SiC at least about 400 micrometers thick, and preferably within the range of about 400-2,000 micrometers thick, is employed to detect electromagnetic radiation having a wavelength less than about 10 micrometers via an  
5 acoustic absorption mechanism. The SiC body preferably has a non-dopant impurity level low enough that it does not interfere with a single crystal structure for the SiC, and an approximately uniform thickness with an approximately flat radiation receiving surface.